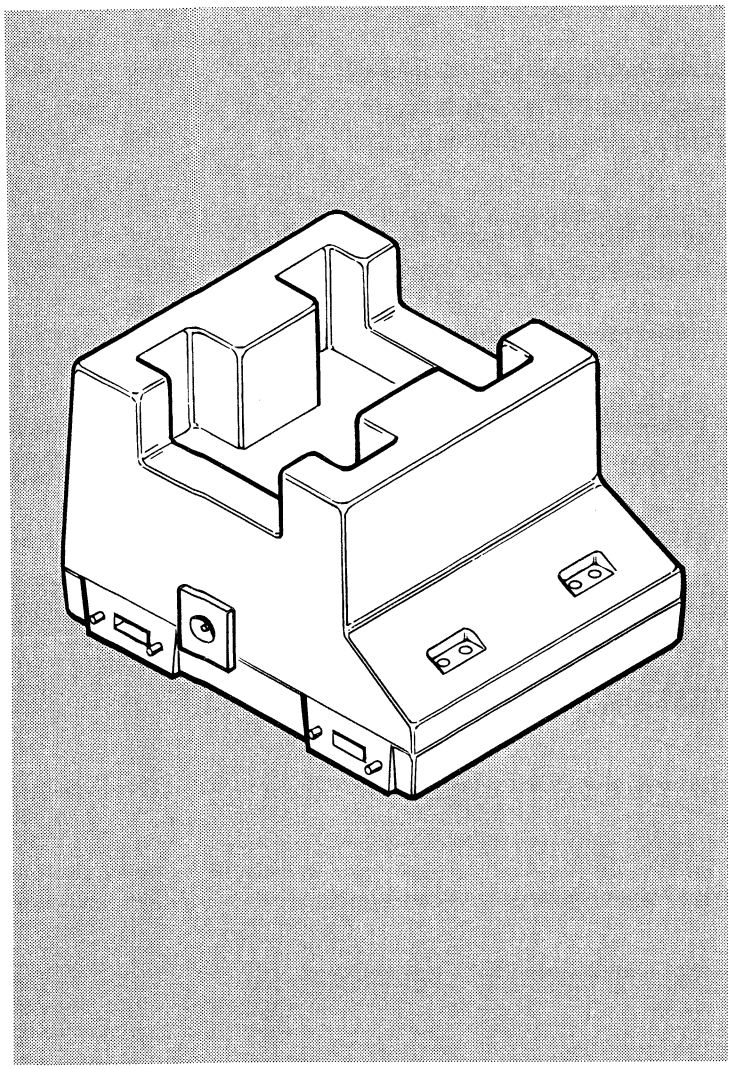
SENNHEISER

Service

L 50



KURZBESCHREIBUNG

Im Doppel-Ladegerät L 50 werden Akkupacks BA 50 und BA 250 geladen. Diese Akkupacks versorgen die Sender SK 50 und SK 250.

- Akkus ermöglichen einen wirtschaftlichen und umweltfreundlichen Betrieb im täglichen Gebrauch.
- Der Ladevorgang im Ladegerät L 50 läuft automatisch. Überladung ist ausgeschlossen, die Akkupacks können auch über längere Zeit im Ladegerät verbleiben.
- Kein Memoryeffect.

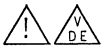
BRIEF DESCRIPTION

The L 50 charger serves to recharge two BA 50 or BA 250 batteries. These battery packs power SK 50 or SK 250 transmitters.

- Economic rechargeable battery operation
- Batteries are charged automatically. You cannot overcharge the batteries.
- No memory effect.

Sicherheitsvorschriften / Safety requirements/ Prescrizioni de sicurezza / Prescriptions de sécurité / Prescripciones de seguridad

Deutsch

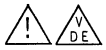


Achtung: Bei Eingriffen in das Gerät sind die Sicherheitsvorschriften nach VDE 701 (reparaturbezogen) bzw. VDE 0860 / IEC 65 (gerätebezogen) zu beachten !

Bauteile nach IEC- bzw. VDE-Richtlinien ! Im Ersatzfall nur Teile mit gleicher Spezifikation verwenden !

MOS - Vorschriften beim Umgang mit MOS - Bauteilen beachten !

English

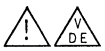


Attention: Please observe the applicable safety requirements according to VDE 701 (concerning repairs) and VDE0860 / IEC 65 (concerning type of product) !

Components to IEC or VDE guidelines ! Only use components with the same specifications for replacement !

Observe MOS components handling instructions when servicing !

Italiano

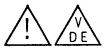


Attenzione: Osservarne le corrispondenti prescrizioni di sicurezza VDE 701 (concernente servizio) e VDE 0860 / IEC 65 (concernente il tipo di prodono) !

Componenti secondo le norme VDE risp. te IEC ! In caso di sostituzione impiegare solo componenti con le stesse caratteristiche.

Osservare le relative prescrizioni durante, lavori con componenti MOS !

Français



Attention: Priere d'observer les prescriptions de sécurité VDE701 (concernant les reparations) et VDE 0860 / IEC 65 (concernant le type de produit) !

Composants répondant aux normes VDE ou IEC. Les remplacer uniquement par des composants ayant les memes spécifications.

Lors de la manipulation des circuits MOS, respecter les pescriptions MOS !

Español

Atención: Recomendamos las normas de seguridad VDE u otras normas equivalentes, por ejemplo: VDE 701 para reparaciones, VDE 0860 / IEC 65 para aparatos !

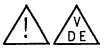
Componentes que cumplen las normas VDE / IEC. En caso de sustitución, emplear componentes con idénticas especificaciones !

Durante la reparacion observar las normas sobre componentes MOS !

USA & Canada

Attention: This set can only be operated from AC mains of 120V / 60Hz. Also observe the information given on the rear of the set !

CAUTION: For continued protection against risk of fire replace only with same type fuses!
CAUTION: To reduce the risk of electric shock, do not remove cover (or back), no user-serviceable parts inside,refer servicing to qualified service personnel.



Components to safety guidelines (IEC / U.L.) ! Only use components with the same specifications for replacement !

Observe by checking leakage-current or resistance measurement that the exposed parts are acceptably insulated from the supply circuit.

Observe MOS components handling instructions when servicing !

INHALTSVERZEICHNIS		SEITE
1.	TECHNISCHE DATEN	4
2.	SERVICE HINWEISE	4
2.1.	ANZEIGEN	
2.2.	DEMONTAGE	
3.	FEHLERSUCHE	5
4.	STROMLAUFPLAN	6
5.	GEDRUCKTE SCHALTUNG	7
6.	EXPLOSIONSZEICHNUNG	8
7.	ERSATZTEILE	9

TABLE OF CONTENTS		PAGE
1.	TECHNICAL DATA	4
2.	SERVICE HINTS	4
2.1.	DISPLAYS	
2.2.	DISASSEMBLY	
3.	TROUBLESHOOTING	5
4.	CIRCUIT DIAGRAM	6
5.	PRINTED CIRCUIT BOARD	7
6.	EXPLODED VIEW	8
7.	SPARE PARTS	9

1. TECHNISCHE DATEN

Ladestrom	ca. 700 mA kontinuierlich
Ladezeit	ca. 1 h, begrenzt auf max. 2 h
Ladeabschaltung	durch - ΔU - Erkennung
Erhaltungsladung	700 mA gepulst (30 mA eff.)
Stromversorgung	12 - 30 V AC oder DC, 800 mA vorzugsweise durch Netzteil NT 50
Abmessungen in mm	80 x 100 x 68
Gewicht	ca. 150 g
Lieferumfang	Doppelladegerät L 50

NETZTEILE:

NT 50 (Art.Nr. 03433) 230 V ± 10 %, 1,3 A, 50 Hz

Änderungen vorbehalten.

1. TECHNICAL DATA

Charging current	approx. 700 mA
Charging time	approx. 1 h, limited to max. 2 h
Automatic on / off function	through - ΔU recognition
Trickle charge	700 mA pulsed mode (30 mA eff.)
Power supply	12 - 30 V AC or DC, 800 mA preferrably through NT 50 power supply unit
Dimensions in mm	80 x 100 x 68
Weight	approx. 150 g
Delivery includes	L 50 charger

POWER SUPPLY UNITS:

NT 50 (Art. No. 03433) 230 V ± 10 %, 1.3 A, 50 Hz

Subject to alterations.

2. SERVICE HINWEISE

2.1. ANZEIGEN

rote LED flackert leicht:	Betriebsbereit
rote LED leuchtet:	Schnelladung läuft
rote LED blinkt hell:	Kurzschluß im Ladestromkreis
grüne LED leuchtet:	Schnelladung beendet, Gerät hat auf Erhaltungsladung umgeschaltet

2.2. DEMONTAGE:

- Kreuzschlitzschraube (4) lösen (Fig. 1)
- Kreuzschlitzschrauben (6) lösen (Fig. 2)
- Bodendeckel (2) entnehmen (Fig. 2)
- Leiterplatte entnehmen

2. SERVICE HINTS

2.1. DISPLAYS

Red LED is flickering:	Ready for operation
Red LED is lit:	Quick charge
Red LED is blinking:	short circuit
Green LED is lit:	Quick charge is finished The unit switches to trickle charge

2.2. DISASSEMBLY

- Loosen countersunk screw (4) as shown in figure 1
- Loosen countersunk screws (6) as shown in figure 2
- Remove bottom cover (2) as shown in figure 2
- Remove PCB

Fig. 1

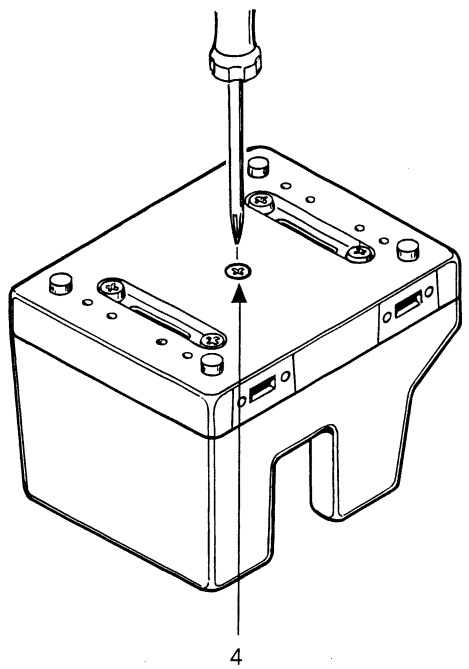
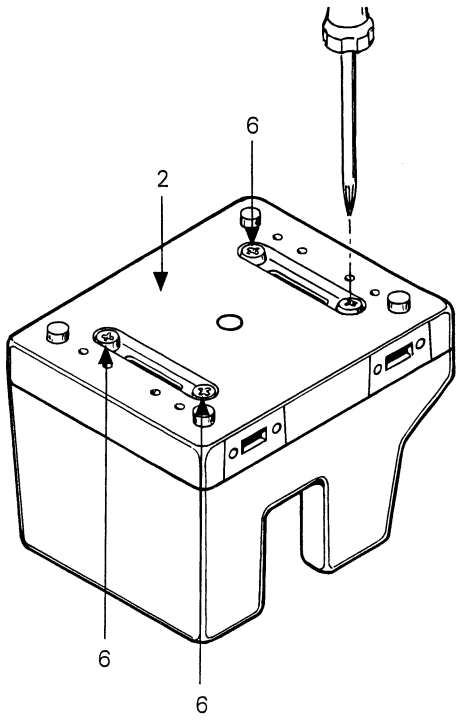


Fig. 2



3. FEHLERSUCHE:

– L 50 speisen

Netzteil NT 50 an Buchse J1 anschließen

– Betriebsspannung überprüfen:

U_{AB} min. 12 VDC

– Referenzspannung mit DC-Voltmeter überprüfen:

linker Ladeschacht:
U1/Pin12 nach Masse = 7,6 VDC

rechter Ladeschacht:
U101/Pin12 nach Masse = 7,6 VDC

– Oszillatorfrequenz mit Frequenzmeßgerät überprüfen:

linker Ladeschacht:
U1/Pin13 nach Masse = 16 - 18 kHz

rechter Ladeschacht:
U101/Pin13 nach Masse = 16 - 18 kHz

– Anzeige "Kurzschluß" (Charge) überprüfen:

linker Ladeschacht:
P1/Pin1 nach P1/Pin2 brücken
LED D5 (rot) blinkt schnell

rechter Ladeschacht:
P101/Pin1 nach P101/Pin2 brücken
LED D105 (rot) blinkt schnell

– Anzeige "Ladung" (Charge) überprüfen:

linker Ladeschacht:
P1/Pin1 nach P1/Pin2 mit 3Ω-Widerstand brücken
LED D5 (rot) leuchtet

rechter Ladeschacht:
P101/Pin1 nach P101/Pin2 mit 3Ω-Widerstand brücken
LED D105 (rot) leuchtet

– Anzeige "Erhaltungsladung" (Ready) überprüfen:

linker Ladeschacht:
P1/Pin1 nach P1/Pin2 mit 3Ω-Widerstand brücken, unmittelbar danach 1Ω-Widerstand parallel schalten
LED D8 (grün) leuchtet

rechter Ladeschacht:
P101/Pin1 nach P101/Pin2 mit 3Ω-Widerstand brücken, unmittelbar danach 1Ω-Widerstand parallel schalten
LED D108 (grün) leuchtet

3. TROUBLESHOOTING:

– Power L 50

Connect power supply NT 50 to socket J1

– Check operating voltage:

U_{AB} min. 12 VDC

– Check reference voltage with DC voltmeter:

left charging slot:
U1/Pin12 to ground = 7.6 VDC

right charging slot:
U101/Pin12 to ground = 7.6 VDC

– Check oscillator frequency with frequency counter:

left charging slot:
U1/Pin13 to ground = 16 - 18 kHz

right charging slot:
U101/Pin13 to ground = 16 - 18 kHz

– Check indicator "short circuit" (Charge):

left charging slot:
Bridge P1/Pin1 to P1/Pin2
LED D5 (red) is blinking

right charging slot:
Bridge P101/Pin1 to P101/Pin2
LED D105 (red) is blinking

– Check indicator "charge" (Charge):

left charging slot:
Bridge P1/Pin1 to P1/Pin2 with 3Ω resistor
LED D5 (red) is lit

right charging slot:
Bridge P101/Pin1 to P101/Pin2 with 3Ω resistor
LED D105 (red) is lit

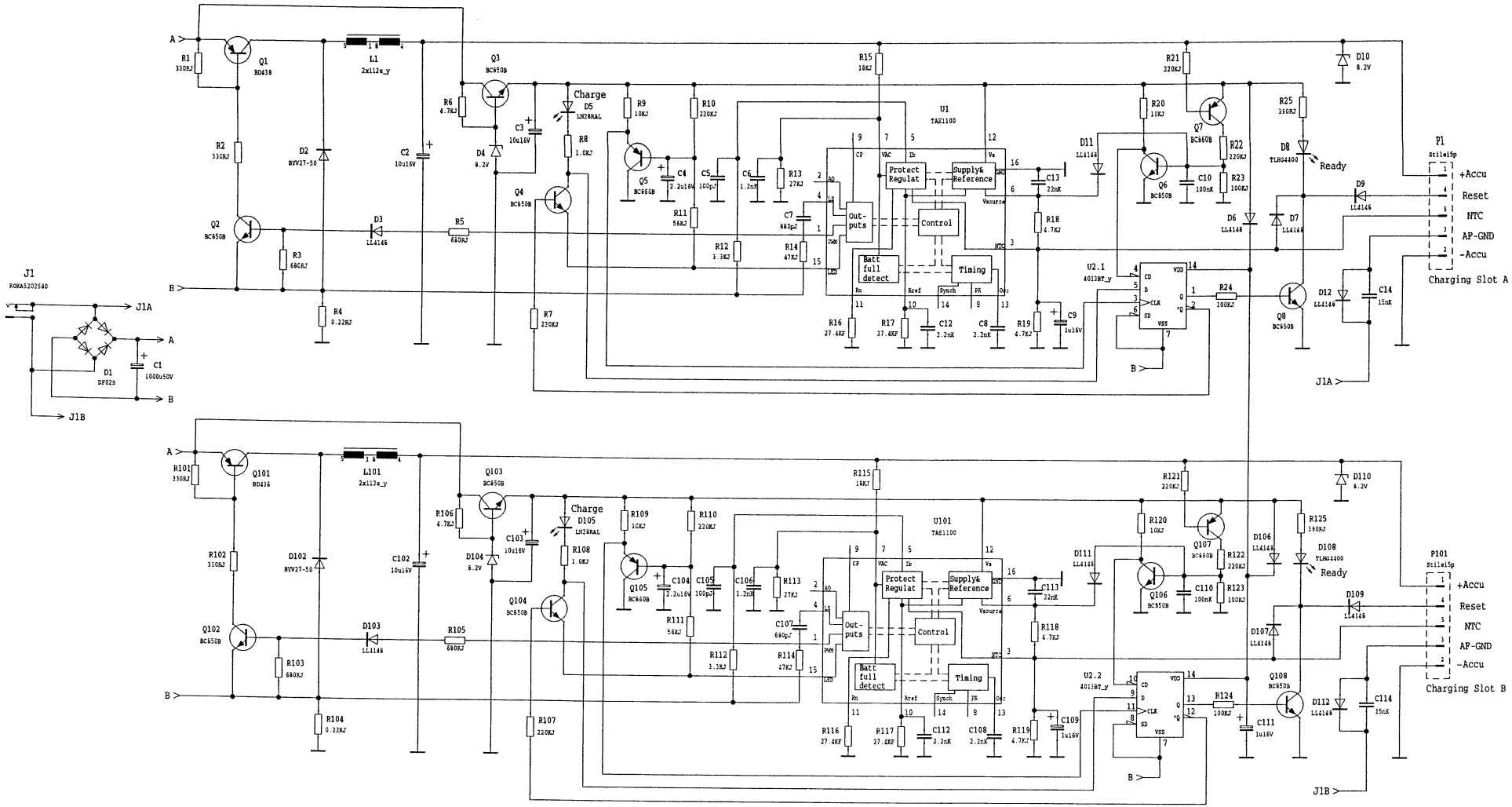
– Check indicator "trickle charge" (Ready):

left charging slot:
Bridge P1/Pin1 to P1/Pin2 with 3Ω resistor and while indicator "charge" is lit bridge resistor with 1Ω resistor immediately
LED D8 (green) is lit

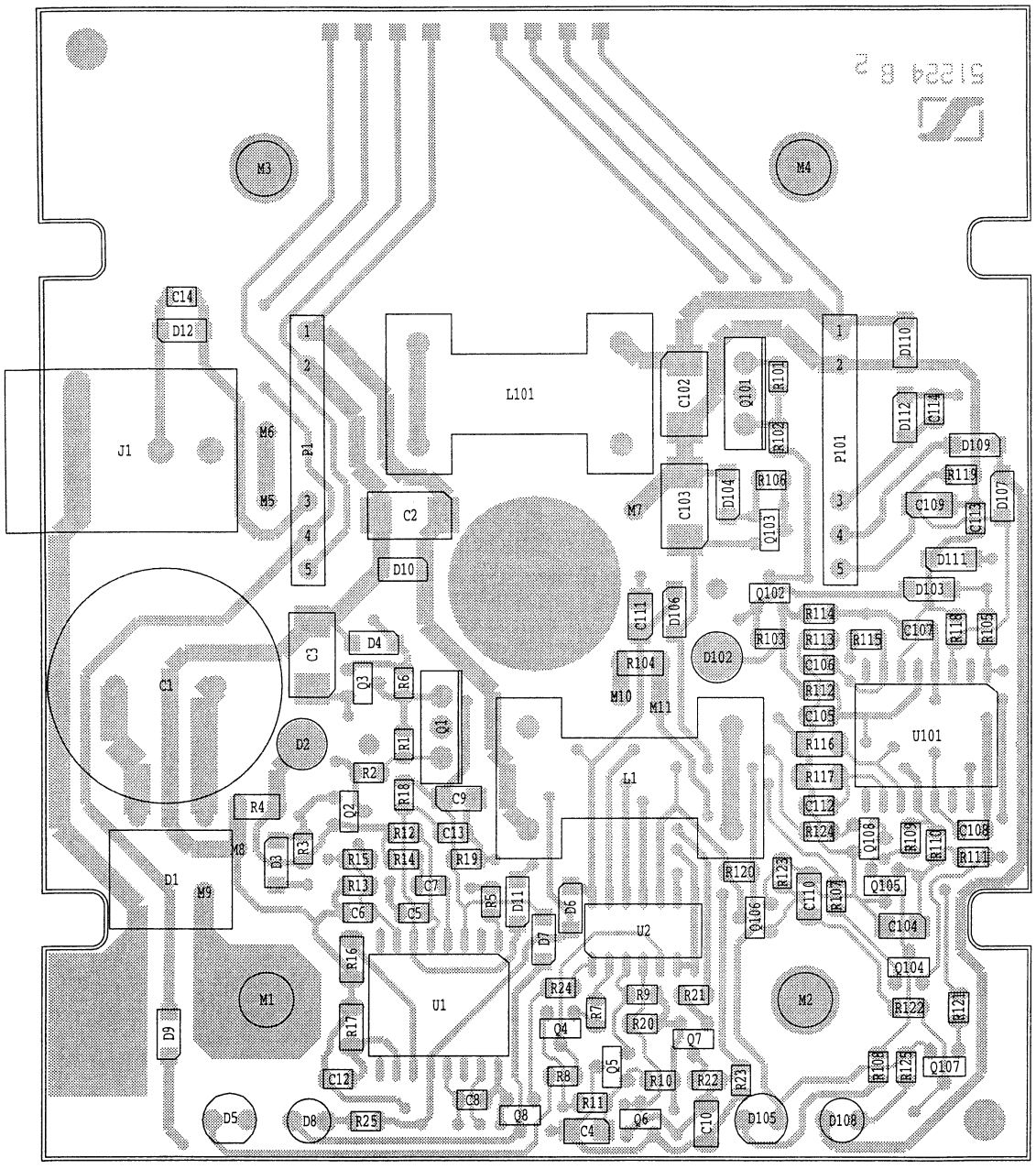
right charging slot:
Bridge P101/Pin1 to P101/Pin2 with 3Ω resistor and while indicator "charge" is lit bridge resistor with 1Ω resistor immediately
LED D108 (green) is lit

NOTIZEN:

NOTES:



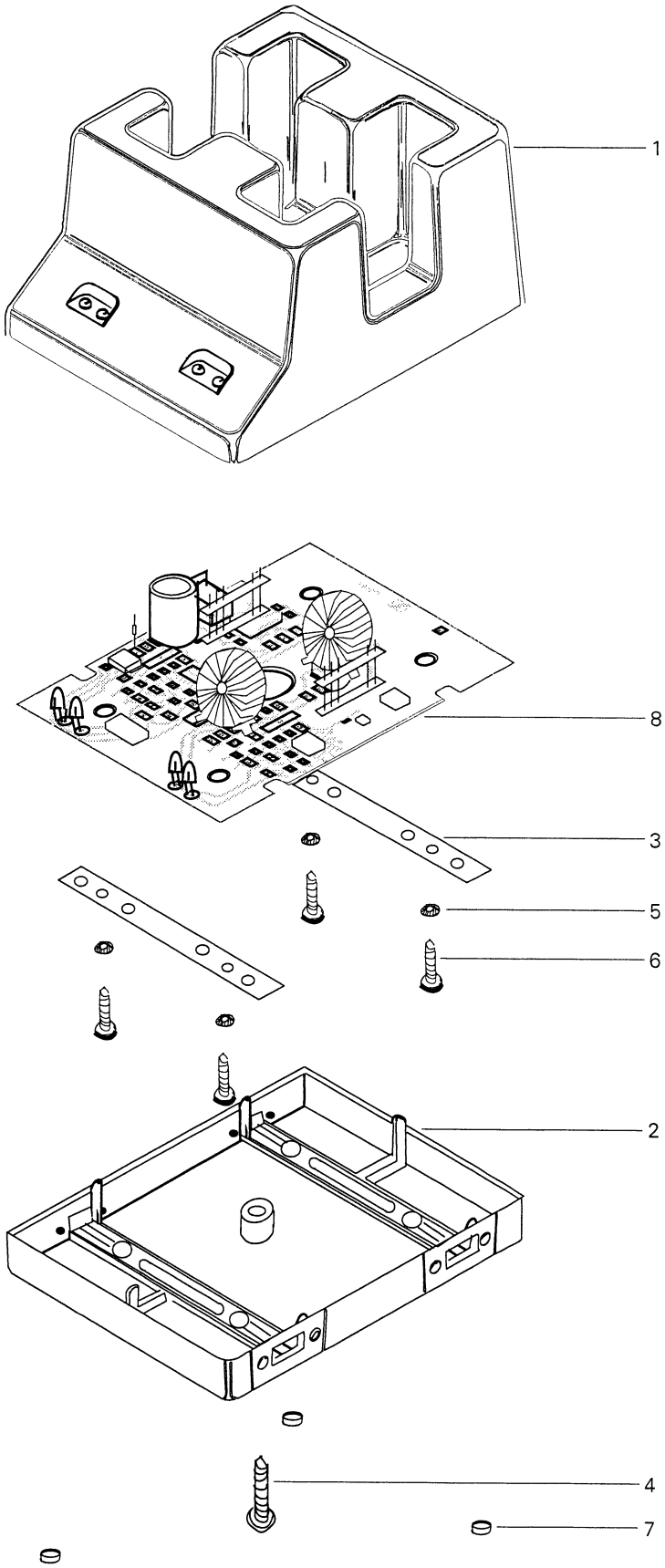
L 50, STROMLAUFPLAN
L 50, CIRCUIT DIAGRAM



L 50, GEDRUCKTE SCHALTUNG, BESTÜCKUNGSSEITE
L 50, PRINTED CIRCUIT BOARD, COMPONENT SIDE

6. EXPLOSIONSZEICHNUNG

6. EXPLODED VIEW



7. ERSATZTEILE

7. SPARE PARTS

POS	IDENT	BEZEICHNUNG	DESCRIPTION
001	48380	Gehäuseschale, oben	Housing shell, upper part
002	48386	Gehäuseschale, unten	Housing shell, lower part
003	44482	Übergabeleiste	Cascade connector
004	27727	Blechschraube St3,9x13 DIN7981 (MOQ:10x)	Sheet metal screw St3.9x13 DIN7981 (MOQ:10x)
005	37672	Fächerscheibe A4,3 DIN6798 (MOQ:10x)	Lock washer A4.3 DIN6798 (MOQ:10x)
006	23005	Linsen-Schraube M4x10 DIN7985 (MOQ:10x)	Lens screw M4x10 DIN7985 (MOQ:10x)
007	42754	Fuß	Foot
008	48813	Leiterplatte bestückt	Printed circuit board assembly
C001	40752	Kondensator AL-ELKO 1mF 50V GPF	Capacitor AL-ELKO 1mF 50V GPF
C002	45339	SMD Kondensator TA-KO 10uF 16V IEC384.3	SMD capacitor TA-KO 10uF 16V IEC384.3
C003	45339	SMD Kondensator TA-KO 10uF 16V IEC384.3	SMD capacitor TA-KO 10uF 16V IEC384.3
C004	45043	SMD Kondensator TA-KO 2,2uF 16V IEC 384,3	SMD capacitor TA-KO 2.2uF 16V IEC 384,3
C005	28692	SMD Kondensator KERKO 100pF 50V NP0 (MOQ:50x)	SMD capacitor KERKO 100pF 50V NP0 0805 (MOQ:50x)
C006	28818	SMD Kondensator KERKO 1,2nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 1.2nF 50V X7R 0805 (MOQ:50x)
C007	19483	SMD Kondensator KERKO 680pF 50V NP0 (MOQ:50x)	SMD capacitor KERKO 680pF 50V NP0 (MOQ:50x)
C008	28693	SMD Kondensator KERKO 2,2nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 2.2nF 50V X7R 0805 (MOQ:50x)
C009	41414	SMD Kondensator TA-KO 1uF 16V	SMD capacitor TA-KO 1uF 16V
C010	19480	SMD Kondensator KERKO 100nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 100nF 50V X7R (MOQ:50x)
C013	32118	SMD Kondensator KERKO 22nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 22nF 50V X7R (MOQ:50x)
C014	29403	SMD Kondensator KERKO 15nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 15nF 50V X7R 0805 (MOQ:50x)
C102	45339	SMD Kondensator TA-KO 10uF 16V IEC384.3	SMD capacitor TA-KO 10uF 16V IEC384.3
C103	45339	SMD Kondensator TA-KO 10uF 16V IEC384.3	SMD capacitor TA-KO 10uF 16V IEC384.3
C104	45043	SMD Kondensator TA-KO 2,2uF 16V IEC 384,3	SMD capacitor TA-KO 2.2uF 16V IEC 384,3
C105	28692	SMD Kondensator KERKO 100pF 50V NP0 (MOQ:50x)	SMD capacitor KERKO 100pF 50V NP0 0805 (MOQ:50x)
C106	28818	SMD Kondensator KERKO 1,2nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 1.2nF 50V X7R 0805 (MOQ:50x)
C107	19483	SMD Kondensator KERKO 680pF 50V NP0 (MOQ:50x)	SMD capacitor KERKO 680pF 50V NP0 (MOQ:50x)
C108	28693	SMD Kondensator KERKO 2,2nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 2.2nF 50V X7R 0805 (MOQ:50x)
C109	41414	SMD Kondensator TA-KO 1uF 16V	SMD capacitor TA-KO 1uF 16V
C110	19480	SMD Kondensator KERKO 100nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 100nF 50V X7R (MOQ:50x)
C111	41414	SMD Kondensator TA-KO 1uF 16V	SMD capacitor TA-KO 1uF 16V
C113	32118	SMD Kondensator KERKO 22nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 22nF 50V X7R (MOQ:50x)
C114	29403	SMD Kondensator KERKO 15nF 50V X7R (MOQ:50x)	SMD capacitor KERKO 15nF 50V X7R 0805 (MOQ:50x)
D001	41708	SMD Brücke SI-B140, C1000	SMD SI-B140, C1000
D002	45434	Diode BYV27.50	Diode BYC27.50
D003	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D004	40137	SMD Z-Diode ZMM 8,2	SMD Z diode ZMM 8.2
D005	45088	LED, rot	LED, red
D006	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D007	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D008	45372	LED, grün	LED, green
D009	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D010	40137	SMD Z-Diode ZMM 8,2	SMD Z diode ZMM 8.2
D011	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D012	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D102	45434	Diode BYV27.50	Diode BYC27.50
D103	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D104	40137	SMD Z-Diode ZMM 8,2	SMD Z diode ZMM 8.2
D105	45088	LED, rot	LED, red
D106	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D107	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D108	45372	LED, grün	LED, green
D109	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D110	40137	SMD Z-Diode ZMM 8,2	SMD Z diode ZMM 8.2
D111	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
D112	29994	SMD Diode Mini-MELF LL4148	SMD diode Mini-MELF LL4148
J001	45409	Hohlklinkenbuchse	Jack bush
L001	45452	Spule 2x112uH	Coil 2x112uH
L101	45452	Spule 2x112uH	Coil 2x112uH
P001	45559	Stiftleiste	Edge connector
P101	45559	Stiftleiste	Edge connector
Q001	32701	Transistor BD438	Transistor BD438
Q002	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q003	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q004	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q005	32468	SMD Transistor BC860B SOT23	SMD transistor BC860B SOT23
Q006	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q007	32468	SMD Transistor BC860B SOT23	SMD transistor BC860B SOT23
Q008	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q101	32701	Transistor BD438	Transistor BD438
Q102	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q103	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23

POS	IDENT	BEZEICHNUNG	DESCRIPTION
Q104	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q105	32468	SMD Transistor BC860B SOT23	SMD transistor BC860B SOT23
Q106	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
Q107	32468	SMD Transistor BC860B SOT23	SMD transistor BC860B SOT23
Q108	32467	SMD Transistor BC850B SOT 23	SMD transistor BC850B SOT23
R001	29093	SMD Widerstand 330R 5% 0805 (MOQ:50x)	SMD resistor 330R 5% 0805 (MOQ:50x)
R002	29093	SMD Widerstand 330R 5% 0805 (MOQ:50x)	SMD resistor 330R 5% 0805 (MOQ:50x)
R003	29095	SMD Widerstand 680R 5% 0805 (MOQ:50x)	SMD resistor 680R 5% 0805 (MOQ:50x)
R004	45414	SMD Widerstand MELF 0R22 5% 0204 (MOQ:50x)	SMD resistor MELF 0R22 5% 0204 (MOQ:50x)
R005	29095	SMD Widerstand 680R 5% 0805 (MOQ:50x)	SMD resistor 680R 5% 0805 (MOQ:50x)
R006	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R007	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R008	29096	SMD Widerstand 1k 5% 0805 (MOQ:50x)	SMD resistor 1k 5% 0805 (MOQ:50x)
R009	29103	SMD Widerstand 10k 5% 0805 (MOQ:50x)	SMD resistor 10k 5% 0805 (MOQ:50x)
R010	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R011	29108	SMD Widerstand 56k 5% 0805 (MOQ:50x)	SMD resistor 56k 5% 0805 (MOQ:50x)
R012	29098	SMD Widerstand 3k3 5% 0805 (MOQ:50x)	SMD resistor 3k3 5% 0805 (MOQ:50x)
R013	29105	SMD Widerstand 27k 5% 0805 (MOQ:50x)	SMD resistor 27k 5% 0805 (MOQ:50x)
R014	29107	SMD Widerstand 47k 5% 0805 (MOQ:50x)	SMD resistor 47k 5% 0805 (MOQ:50x)
R015	29166	SMD Widerstand 18k 5% 0805 (MOQ:50x)	SMD resistor 18k 5% 0805 (MOQ:50x)
R016	40389	MELF Widerstand 27k4 1% 0204 (MOQ:50x)	MELF resistor 27k4 1% 0204 (MOQ:50x)
R017	40389	MELF Widerstand 27k4 1% 0204 (MOQ:50x)	MELF resistor 27k4 1% 0204 (MOQ:50x)
R018	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R019	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R020	29103	SMD Widerstand 10k 5% 0805 (MOQ:50x)	SMD resistor 10k 5% 0805 (MOQ:50x)
R021	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R022	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R023	29170	SMD Widerstand 100k 5% 0805 (MOQ:50x)	SMD resistor 100k 5% 0805 (MOQ:50x)
R024	29170	SMD Widerstand 100k 5% 0805 (MOQ:50x)	SMD resistor 100k 5% 0805 (MOQ:50x)
R025	32461	SMD Widerstand 390R 5% 0805 (MOQ:50x)	SMD resistor 390R 5% 0805 (MOQ:50x)
R101	29093	SMD Widerstand 330R 5% 0805 (MOQ:50x)	SMD resistor 330R 5% 0805 (MOQ:50x)
R102	29093	SMD Widerstand 330R 5% 0805 (MOQ:50x)	SMD resistor 330R 5% 0805 (MOQ:50x)
R103	29095	SMD Widerstand 680R 5% 0805 (MOQ:50x)	SMD resistor 680R 5% 0805 (MOQ:50x)
R104	45414	SMD Widerstand MELF 0R22 5% 0204 (MOQ:50x)	SMD resistor MELF 0R22 5% 0204 (MOQ:50x)
R105	29095	SMD Widerstand 680R 5% 0805 (MOQ:50x)	SMD resistor 680R 5% 0805 (MOQ:50x)
R106	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R107	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R108	29096	SMD Widerstand 1k 5% 0805 (MOQ:50x)	SMD resistor 1k 5% 0805 (MOQ:50x)
R109	29103	SMD Widerstand 10k 5% 0805 (MOQ:50x)	SMD resistor 10k 5% 0805 (MOQ:50x)
R110	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R111	29108	SMD Widerstand 56k 5% 0805 (MOQ:50x)	SMD resistor 56k 5% 0805 (MOQ:50x)
R112	29098	SMD Widerstand 3k3 5% 0805 (MOQ:50x)	SMD resistor 3k3 5% 0805 (MOQ:50x)
R113	29105	SMD Widerstand 27k 5% 0805 (MOQ:50x)	SMD resistor 27k 5% 0805 (MOQ:50x)
R114	29107	SMD Widerstand 47k 5% 0805 (MOQ:50x)	SMD resistor 47k 5% 0805 (MOQ:50x)
R115	29166	SMD Widerstand 18k 5% 0805 (MOQ:50x)	SMD resistor 18k 5% 0805 (MOQ:50x)
R116	40389	MELF Widerstand 27k4 1% 0204 (MOQ:50x)	MELF resistor 27k4 1% 0204 (MOQ:50x)
R117	40389	MELF Widerstand 27k4 1% 0204 (MOQ:50x)	MELF resistor 27k4 1% 0204 (MOQ:50x)
R118	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R119	29100	SMD Widerstand 4k7 5% 0805 (MOQ:50x)	SMD resistor 4k7 5% 0805 (MOQ:50x)
R120	29103	SMD Widerstand 10k 5% 0805 (MOQ:50x)	SMD resistor 10k 5% 0805 (MOQ:50x)
R121	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R122	29122	SMD Widerstand 220k 5% 0805 (MOQ:50x)	SMD resistor 220k 5% 0805 (MOQ:50x)
R123	29170	SMD Widerstand 100k 5% 0805 (MOQ:50x)	SMD resistor 100k 5% 0805 (MOQ:50x)
R124	29170	SMD Widerstand 100k 5% 0805 (MOQ:50x)	SMD resistor 100k 5% 0805 (MOQ:50x)
R125	32461	SMD Widerstand 390R 5% 0805 (MOQ:50x)	SMD resistor 390R 5% 0805 (MOQ:50x)
U001	45435	SMD IC 2xD.FF CMOS-4013B F16P SUP16	SMD IC 2xD.FF CMOS-4013b F16P SUP16
U002	45436	SMD IC CMOS-4013B F16P SUP12	SMD IC CMOS-4013B F16P SUP12
U101	45435	SMD IC 2xD.FF CMOS-4013B F16P SUP16	SMD IC 2xD.FF CMOS-4013b F16P SUP16

Ident - Nr. 52122
Printed in Germany

20.3.2024

242

SENNHEISER

Service-Info

SI 990407-04

An ... / *To ...*

- ☐ Ersatzteilabteilung / *Spare Parts Department*
- ☐ Dokumentation / *Documentation*
- ☒ Reparaturabteilung / *Repair shop*

L 50

Änderung durchführen ... / *Make modification ...*

- ☒ im Servicefall / *in case of servicing*
- ☐ bei Bedarf / *if necessary*
- ☐ Serien-Nr., Code-Nr., Lieferzeit / *Serial no., Code no., delivery date* _____
- ☐ Werkseitig durchgeführt ab / *Factory-modified from* _____

MÖGLICHER FEHLER:

Mögliche Fehlfunktion durch HF-Einflüsse.

FEHLERURSACHE:

Durch starke externe Felder kann der Ladevorgang zurückgesetzt werden.

FEHLERBEHEBUNG:

Kondensatoren C13 und C113 entfernen.

POSSIBLE FAULTS:

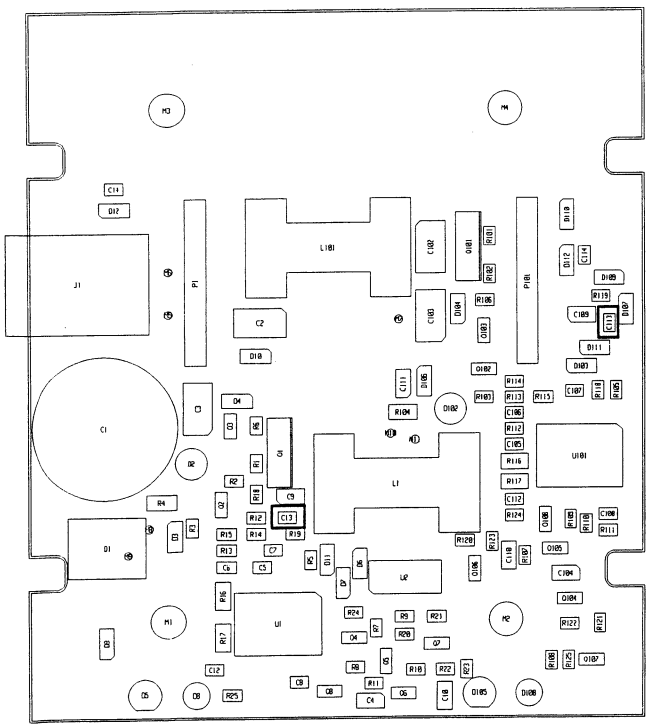
Possible malfunction due to RF influence.

CAUSE OF THE FAULT:

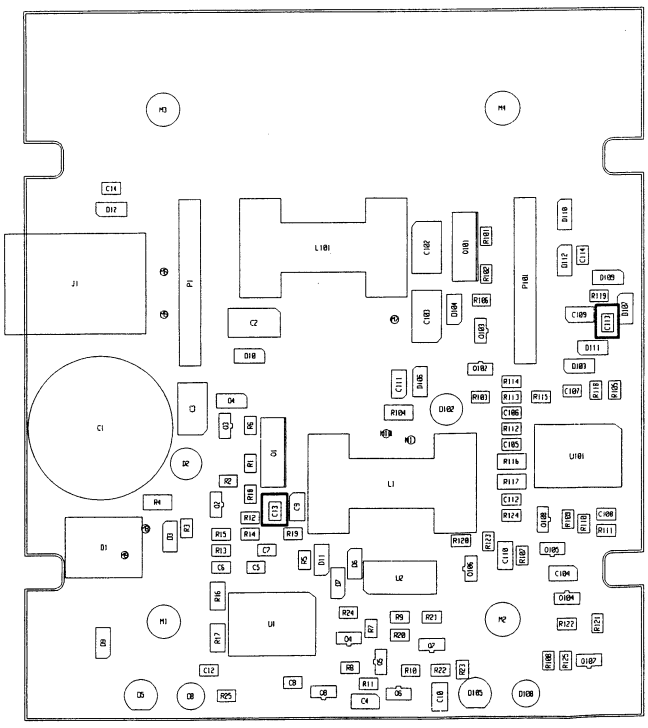
Strong external electric fields may reset the charging process.

REMEDIAL MEASURE:

Remove capacitors C13 and C113.



L 50, BESTÜCKUNGSSEITE, NR. 51224
L 50, COMPONENT SIDE, NO 51224



L 50, BESTÜCKUNGSSEITE, NR. 55080
L 50, COMPONENT SIDE, NO 55080